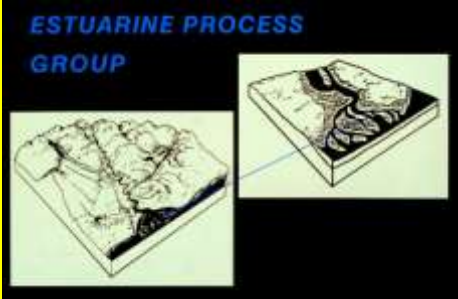






Estuarine Process Group				
				
 <p>Associated landforms: Estuary (71) <i>Sideslope Length/Angle: Not significant</i> <i>StreamBankComposition: Alluvium</i></p>		<p>ESSf - Silt Substrate Estuarine Channel or Slough (former-ES1) An estuarine silt substrate channel. Stream Gradient: <0.5% Incision Depth: <4 m (13 ft) Bankfull Width: <20 m (66 ft)</p> <p><u>Dominant Substrate:</u> Silt/clay to sand</p> <p><u>Plant Association:</u> Nonforested, with S.Spruce/Cottonwood significant</p> <p><u>Similar Channel Types:</u> <u>FPS:</u> associated with beach/dune landforms, sand substrate <u>FPB:</u> not in intertidal zone <u>ESSg:</u> sand substrate, mountain runoff, <10m wide <u>GES:</u> very broad anastomosed channel, associated with glacial outwash channels</p>	<p>ESSg - Narrow Small (Sand to Gravel) Substrate Estuarine Channel (former-ES2) A narrow, low gradient, shallowly incised channel. Quality habitat >ESSc.</p> <p>Stream Gradient: ≤ 1% Incision Depth: <3 m (10 ft) Bankfull Width: Variable, usually <10 m (33 ft)</p> <p><u>Dominant Substrate:</u> Sand to gravel</p> <p><u>Plant Association:</u> Nonforested - forbs & grasses, W.Hemlock significant</p> <p><u>Similar Channel Types:</u> <u>ESL:</u> width >10 m (33 ft) <u>ESSc:</u> steeper gradient up to 3%, larger substrate</p>	<p>ESSc - Narrow Large (Coarse Gravel to Boulders) Substrate Estuarine Channel (former-ES3) A low gradient, shallowly incised, small rocky channel with small bars.</p> <p>Stream Gradient: <3% Incision Depth: <3 m (10 ft) Bankfull Width: Variable, usually <10 m</p> <p><u>Dominant Substrate:</u> Fine gravel to small boulder</p> <p><u>Plant Association:</u> Nonforested - forbs & grasses, Sitka Spruce significant</p> <p><u>Similar Channel Types:</u> <u>ESL:</u> gradient <2%, width >10 m (33 ft) <u>ESSg:</u> gradient <1%, finer substrate</p>
<p>Sediment Function: Stream Class:</p>		<p>Storage Class I and II</p>		

Estuarine Process Group



ESL - Large Estuarine Channel (former -ES4)

A large, low gradient, shallowly incised, alluvial-tidal zone channel.

Stream Gradient: <2%

Incision Depth: <5 m (16.5 ft)

Bankfull Width: >10 m (33 ft)

Dominant Substrate: Gravel to cobble

Plant Association: Nonforested - sedges & grasses

Phases: ESLd

Similar Channel Types:

ESSc: width <10 m (33 ft), larger substrate **ESSg:** width <10 m (33 ft),

GES: active glaciers in drainage basin, **FPM:** not associated with estuary



GES - Broad Braided Glacial Outwash Estuarine Channel (former -ES8)

A very wide, shallow, braided, tidal zone, glacial melt water channel.

Stream Gradient: <1.5%

Incision Depth: <2 m (6.6 ft)

Bankfull Width: Variable, normally a very wide, braided delta

Dominant Substrate: Sand to coarse gravel

Plant Association: Salt tolerant grasses and sedges

Similar Channel Types:

GOB: not subject to tidal influence

ESL: not associated with glacial systems